

10/19/15
Pump Run

Page 1 of 1

10/20/1200 NO 2-31 Pumping on this
cycle AS we did not reach the
504 ACLEB FY release.

Brad Ponegalik

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET						
				Month	Day	Year
				10	19	2015
Time	West Pump (107942)	Center Pump (107941)	East Pump (107940)	North Canal Level	South Canal Level	System Checks at
00:00	Flow: Total:	Flow: Total:	Flow: Total:			
01:00	Flow: Total:	Flow: Total:	Flow: Total:			
02:00	Flow: Total:	Flow: Total:	Flow: Total:			
03:00	Flow: Total:	Flow: Total:	Flow: Total:			
04:00	Flow: Total:	Flow: Total:	Flow: Total:			
05:00	Flow: Total:	Flow: Total:	Flow: Total:			
06:00	Flow: Total:	Flow: Total:	Flow: Total:			
07:00	Flow: Total:	Flow: Total:	Flow: Total:			
08:00	Flow: Total:	Flow: Total:	Flow: Total:			
09:00	Flow: Total:	Flow: Total:	Flow: Total:			
10:00	Flow: Total:	Flow: Total:	Flow: Total:			
11:00	Flow: Total:	Flow: Total:	Flow: Total:			
12:00	Flow: Total:	Flow: Total:	Flow: Total:			
13:00	Flow: Total:	Flow: Total:	Flow: Total:			
14:00	Flow: Total:	Flow: Total:	Flow: Total:			
15:00	Flow: Total:	Flow: Total:	Flow: Total:			
16:00	Flow: Total:	Flow: Total:	Flow: Total:			
17:00	Flow: Total:	Flow: Total:	Flow: Total:			
18:00	Flow: Total:	Flow: Total:	Flow: Total:			
19:00	Flow: Total:	Flow: Total:	Flow: Total:			
20:00	Flow: Total:	Flow: Total:	Flow: Total:			
21:00	Flow: Total:	Flow: Total:	Flow: Total:			
22:00	Flow: Total:	Flow: Total:	Flow: Total:			
23:00	Flow: Total:	Flow: Total:	Flow: Total:			
23:59	Flow: Total:	Flow: Total:	Flow: Total:			

LESS THAN 504

NO WATER ALLOTTED

Nannette Sweeney
Nannette Sweeney

10/19/15

**INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM
ATTACHMENT 3**

SOUTH PUMP STATION HOURLY LOG SHEET				Month 10	Day 19	Year 2015
Time	North Pump (107944)	South Pump (107939)		North Canal Level	South Canal Level	System Check Sat
00:00	Flow: Total:	Flow: Total:				
01:00	Flow: Total:	Flow: Total:				
02:00	Flow: Total:	Flow: Total:				
03:00	Flow: Total:	Flow: Total:				
04:00	Flow: Total:	Flow: Total:				
05:00	Flow: Total:	Flow: Total:				
06:00	Flow: Total:	Flow: Total:				
07:00	Flow: Total:	Flow: Total:				
08:00	Flow: Total:	Flow: Total:				
09:00	Flow: Total:	Flow: Total:				
10:00	Flow: Total:	Flow: Total:				
11:00	Flow: Total:	Flow: Total:				
12:00	Flow: Total:	Flow: Total:				
13:00	Flow: Total:	Flow: Total:				
14:00	Flow: Total:	Flow: Total:				
15:00	Flow: Total:	Flow: Total:				
16:00	Flow: Total:	Flow: Total:				
17:00	Flow: Total:	Flow: Total:				
18:00	Flow: Total:	Flow: Total:				
19:00	Flow: Total:	Flow: Total:				
20:00	Flow: Total:	Flow: Total:				
21:00	Flow: Total:	Flow: Total:				
22:00	Flow: Total:	Flow: Total:				
23:00	Flow: Total:	Flow: Total:				
23:59	Flow: Total:	Flow: Total:				

LESS THAN 504

NO WATER ALLOTTED

Nannette Sweeney
Nannette Sweeney

10/19/15

10-20 thru 10-21-15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 1

Pump Coordinator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 1 of 1

10/21/856

✓ out pumps for operation,
made sure all wildlife clear of pumping
Area

10/21/9:05

Started North Pump

10/21/9:10

Started South Pumps

10/21/1000

Total gallons Pumped North station = 3,543,595

10/21/1000

South station Pumped = 3,192,200

10/21/1100

Total Pumped North Station = 3,866,190

10/21/1100

Total Pumped South Station = 4,067,620

10/21/1155

Total Pumped North Station = 3,539,190

10/21/1150

Total Pumped South Station = 3,476,750

10/21/1200

North Station - Total Gallons Pumped this Cycle = 10,948,925

10/21/1200

South Station - Total Gallons Pumped this Cycle = 10,736,620

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

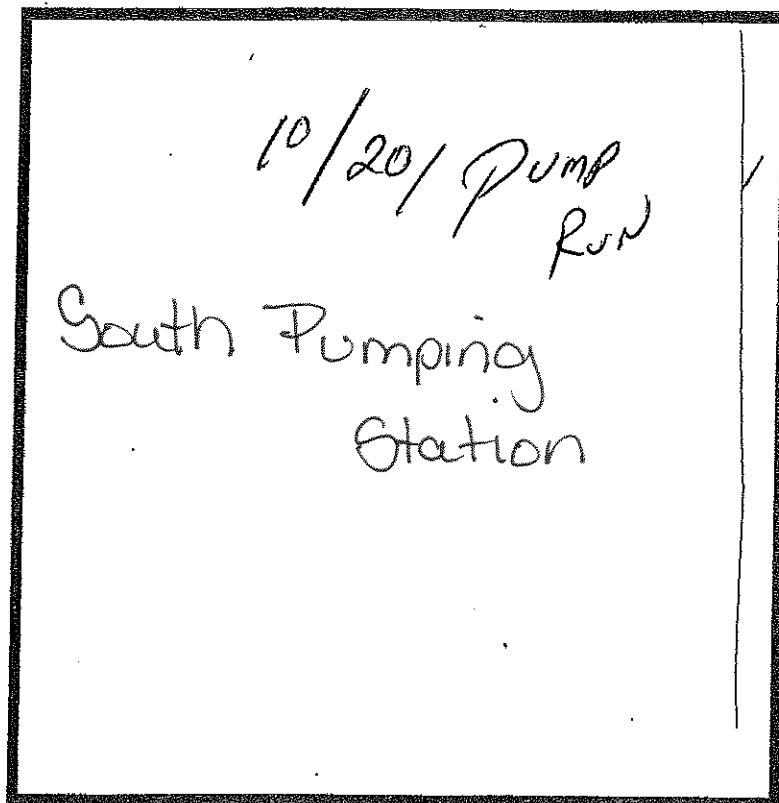
Revision No. 08

Author: *Cathy Ward* Date: *10/1/15*

Approved: *Paul M. [Signature]* Date: *10/1/15*

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

10-20 pump

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>10</u> Day <u>21</u> Year <u>2015</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
5:00	Flow:	Flow:				
5:00	Total:	Total:				
6:00	Flow:	Flow:				
6:00	Total:	Total:				
7:00	Flow:	Flow:				
7:00	Total:	Total:				
8:00	Flow:	Flow:				
8:00	Total:	Total:				
9:00	Flow: <u>33411</u>	Flow: <u>29246</u>	<u>598</u>	<u>598</u>	<u>0.9</u>	✓
9:00	Total: <u>53969555</u>	Total: <u>1159246</u>			<u>0.9</u>	✓
10:00	Flow: <u>ERROR</u>	Flow: <u>31620</u>	<u>598</u>	<u>598</u>	<u>0.9</u>	✓
10:00	Total: <u>54825921</u>	Total: <u>12375328</u>			<u>0.9</u>	
11:00	Flow: <u>37798</u>	Flow: <u>32760</u>	<u>598</u>	<u>598</u>	<u>0.9</u>	✓
11:00	Total: <u>56650179</u>	Total: <u>14138695</u>				
12:00	Flow: <u>34510</u>	Flow: <u>33996</u>	<u>598</u>	<u>598</u>	<u>0.9</u>	✓
12:00	Total: <u>58289169</u>	Total: <u>14861094</u>				

PUMP OPERATOR Bud [Signature]Date 10-21-15VERIFIED BY PUMP
COORDINATOR Bud [Signature]

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24: 00	Total:	Total:				

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

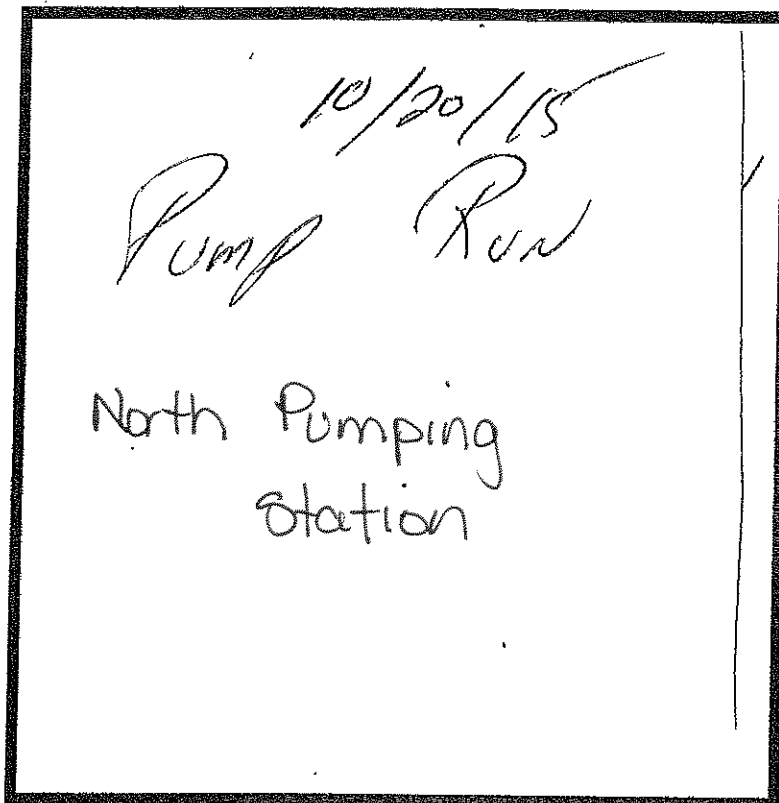
Revision No. 08

Author: *Patricia Ward* Date: *10/1/15*

Approved: *Paul Swartz* Date: *10/1/15*

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Bryan Ingman

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET

Month 10 Day 21 Year 2015

Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
2:00	Total:	Total:	Total:						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow:	Flow:	Flow:						
4:00	Total:	Total:	Total:						
5:00	Flow:	Flow:	Flow:						
5:00	Total:	Total:	Total:						
6:00	Flow:	Flow:	Flow:						
6:00	Total:	Total:	Total:						
7:00	Flow:	Flow:	Flow:						
7:00	Total:	Total:	Total:						
8:00	Flow:	Flow:	Flow:						
8:00	Total:	Total:	Total:						
9:00	Flow:	Flow:	Flow:						
9:05	22382	ERROR	ERROR	576	576	576	.5	1	✓
9:00	Total: 25307718	ERROR	ERROR	60HZ	60HZ	60HZ			
10:00	Flow: 22195	ERROR	ERROR	576	576	576	.3	1	✓
10:00	Total: 27120112	ERROR	ERROR						
11:00	Flow: 22278	ERROR	ERROR	576	576	576	0	1	✓
11:00	Total: 28434549	ERROR	ERROR						
11:55	Flow: 22018	ERROR	ERROR	576	576	576			
	Total: 29591636	ERROR	ERROR	60HZ	60HZ	60HZ			

PUMP OPERATOR

Date 10/21/2015VERIFIED BY PUMP
COORDINATORDate 10/21/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

10/21/15
Pump

Page 1 of 1

10/22/1035 Checked For Wildlife and made
sure all equipment in operating order.

10/22/10150 started North Pumps

10/22/10155 started South Pumps.

10/22/1155 Total Gallons pumped by North Station = 4,181,125

10/22/1150 Total Gallons pumped by South Station = 3,919,465

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

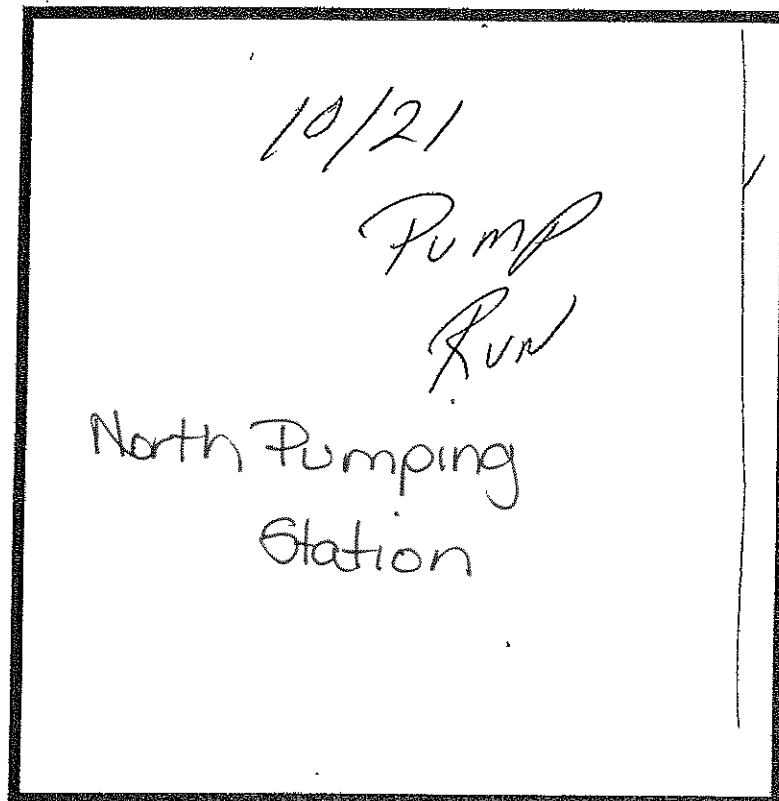
Revision No. 08

Author: *Patricia Ward* Date: *10/1/15*

Approved: *Paul M. [Signature]* Date: *10/1/15*

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

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INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET										Month	Day	Year
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat			
00:00	Flow:	Flow:	Flow:									
00:00	Total:	Total:	Total:									
1:00	Flow:	Flow:	Flow:									
1:00	Total:	Total:	Total:									
2:00	Flow:	Flow:	Flow:									
2:00	Total:	Total:	Total:									
3:00	Flow:	Flow:	Flow:									
3:00	Total:	Total:	Total:									
4:00	Flow:	Flow:	Flow:									
4:00	Total:	Total:	Total:									
5:00	Flow:	Flow:	Flow:									
5:00	Total:	Total:	Total:									
6:00	Flow:	Flow:	Flow:									
6:00	Total:	Total:	Total:									
7:00	Flow:	Flow:	Flow:									
7:00	Total:	Total:	Total:									
8:00	Flow:	Flow:	Flow:									
8:00	Total:	Total:	Total:									
9:00	Flow:	Flow:	Flow:									
9:00	Total:	Total:	Total:									
10:00	Flow:	Flow:	Flow:									
10:00	Total:	Total:	Total:									
11:00 10:50	Flow: 23028	Flow: ERROR	Flow: 20914	576	576	576	0	.9	✓			
11:00 11:55	Total: 29693200		9668378									
12:00 11:55	Flow: 22094	Flow: ERROR	Flow: 20414	576	576	576	0	.9	✓			
12:00 11:55	Total: 30958896	Total: ✓	Total: 10854609									

PUMP OPERATOR

Date: 10-22-15

VERIFIED BY PUMP
COORDINATOR

Date: 10-22-15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET				Month	Day	Year			
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:						
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

ER3C CASH 10/22/15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Cathy Ward

Date:

10/1/15

Approved:

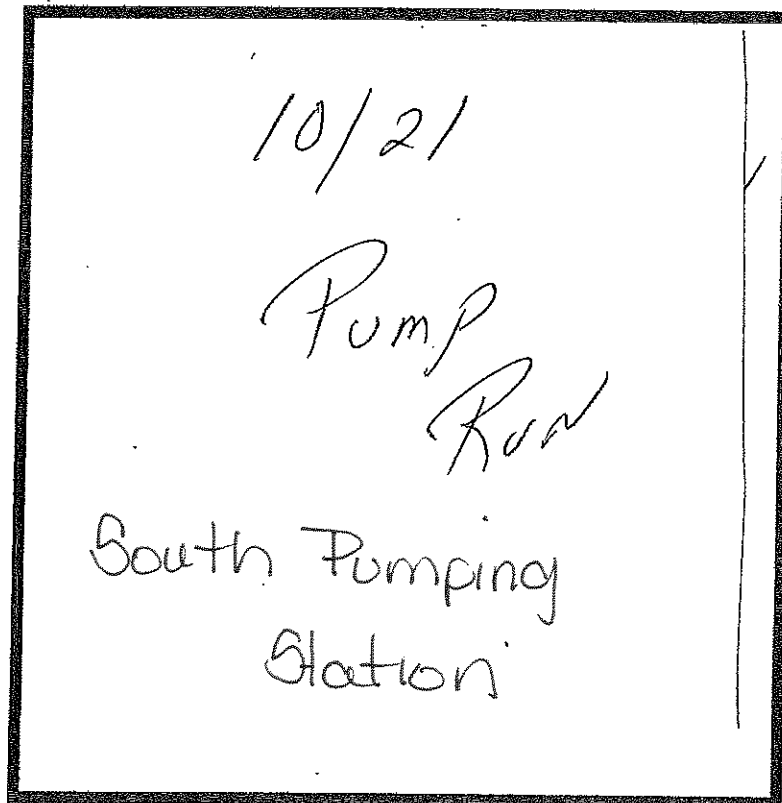
Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



ERIC CASH

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
		Month	10	Day	22	Year 2015
Time	North Pump (107944)	South Pump (107939)	RPM No Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
5:00	Flow:	Flow:				
5:00	Total:	Total:				
6:00	Flow:	Flow:				
6:00	Total:	Total:				
7:00	Flow:	Flow:				
7:00	Total:	Total:				
8:00	Flow:	Flow:				
8:00	Total:	Total:				
9:00	Flow:	Flow:				
9:00	Total:	Total:				
10:00	Flow:	Flow:				
10:00	Total:	Total:				
11:00 10:55	Flow: 34223	Flow: 1601060	598	598	.9	✓
11:00 10:55	Total: 38338745	Total: 319591				
12:00 11:50	Flow: 34005	Flow: 33354	598	598	.9	✓
12:00 11:50	Total: 60066182	Total: 150779912			.9	✓

PUMP OPERATOR ERIC CASH

Date 10/22/15

VERIFIED BY PUMP
COORDINATOR

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24: 00	Total:	Total:				

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

Pump Coordinator Roles and Responsibilities

10/22
Pump Run

EVENT LOG BOOK

Page 1 of 1

Date / Time	EVENT LOG BOOK	Page 1 of 1
10/23/232	Started North pumps	
/237	Started South pumps	
/		
/0300	North Station Pumped	1,786,428
/0300	South Station Pumped	1,468,665
/0400	South Station Pumped	3,888,840
/0400	North Station Pumped	3,766,080
/0400	Changed South Station Hz from 57 to 56	
/0500	North station pumped	3,777,180
/0500	South Station pumped	3,875,520
/0600	North Station Pumped	3,786,450
/0600	South Station Pumped	3,842,850
/0700	North Station Pumped	3,821,040
/0700	South Station Pumped.	3,861,780
/0800	North Station Pumped	3,879,780
/0800	South station Pumped.	3,854,640
/0900	North Station Pumped	3,879,240
/0900	South Station Pumped	3,768,330
/1000	North Station Pumped	3,879,540
/1000	South station Pumped	3,782,790
/1100	North Station Pumped	3,870,240
/1100	South Station Pumped	3,903,000
/1155	North station Pumped =	3,654,740
/1150	South Station Pumped =	3,329,500
/		
10/23/1200	Total Pumped by North Station =	36,100,718
10/23/1200	Total Pumped by South Station into CCS =	35,520,515
/		
/		
/		
/		
/		
/		
/	Note At 10:18 moved South Station From 56Hz to 57 Hz.	
/		
/		
/		

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

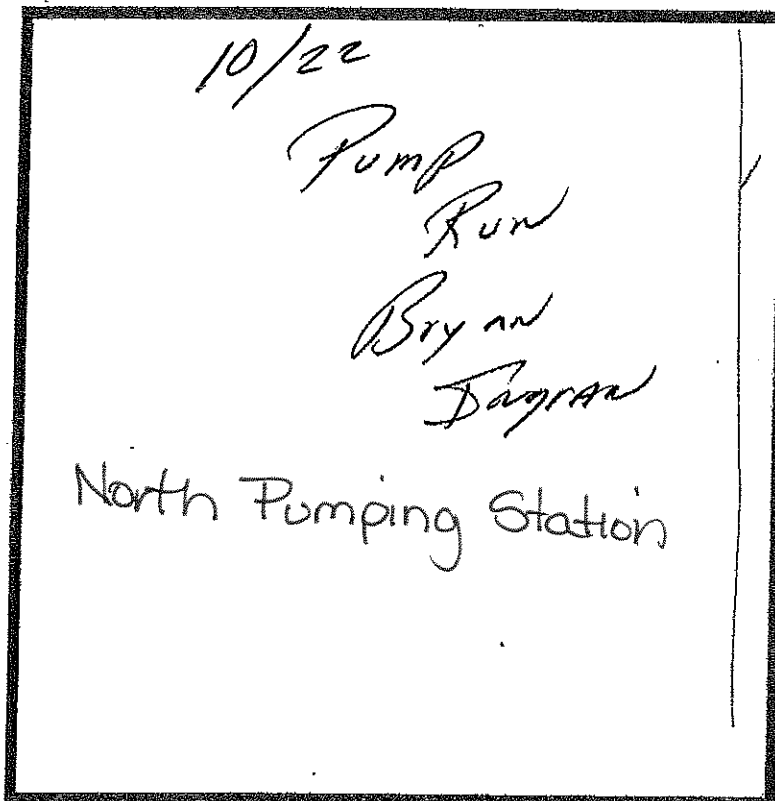
Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>10</u> Day <u>23</u> Year <u>2015</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow: <u>24529</u>	Flow: <u>ERROR</u>	Flow: <u>19962</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>0</u>	<u>.9</u>	<u>✓</u>
2:00	Total: <u>31103555</u>	Total: <u>ERROR</u>	Total: <u>10963841</u>						
3:00	Flow: <u>22618</u>	Flow: <u>ERROR</u>	Flow: <u>19618</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.1</u>	<u>9</u>	<u>✓</u>
3:00	Total: <u>31628287</u>	Total: <u>ERROR</u>	Total: <u>10864623</u>						
4:00	Flow: <u>22657</u>	Flow: <u>ERROR</u>	Flow: <u>19767</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.3</u>	<u>9</u>	<u>✓</u>
4:00	Total: <u>33294690</u>	Total: <u>ERROR</u>	Total: <u>11993674</u>						
5:00	Flow: <u>22840</u>	Flow: <u>ERROR</u>	Flow: <u>19766</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.3</u>	<u>8</u>	<u>✓</u>
5:00	Total: <u>34309589</u>	Total: <u>ERROR</u>	Total: <u>13166662</u>						
6:00	Flow: <u>22867</u>	Flow: <u>ERROR</u>	Flow: <u>19869</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.4</u>	<u>9</u>	<u>✓</u>
6:00	Total: <u>35760757</u>	Total: <u>ERROR</u>	Total: <u>13467998</u>	<u>60Hz</u>	<u>60Hz</u>	<u>60Hz</u>			
7:00	Flow: <u>22564</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.5</u>	<u>9</u>	<u>✓</u>
7:00	Total: <u>37158993</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
8:00	Flow: <u>22362</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.5</u>	<u>9</u>	<u>✓</u>
8:00	Total: <u>38466129</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
9:00	Flow: <u>22546</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.6</u>	<u>9</u>	<u>✓</u>
9:00	Total: <u>39761441</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
10:00	Flow: <u>22372</u>	Flow: <u>ERROR</u>	Flow: <u>19920</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.6</u>	<u>9</u>	<u>✓</u>
10:00	Total: <u>41100743</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>						
11:00	Flow: <u>22236</u>	Flow: <u>ERROR</u>	Flow: <u>19810</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.5</u>	<u>9</u>	<u>✓</u>
11:00	Total: <u>42436026</u>	Total: <u>ERROR</u>	Total: <u>13468582</u>						
11:00	Flow: <u>22222</u>	Flow: <u>ERROR</u>	Flow: <u>ERROR</u>	<u>576</u>	<u>576</u>	<u>576</u>	<u>.3</u>	<u>9</u>	<u>✓</u>
11:00	Total: <u>43581270</u>	Total: <u>ERROR</u>	Total: <u>ERROR</u>	<u>60Hz</u>	<u>60Hz</u>	<u>60Hz</u>			

PUMP OPERATOR

Date

VERIFIED BY PUMP

COORDINATOR

Date

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET										
				Month	Day	Year				
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat	
13:00	Flow:	Flow:	Flow:							
13:00	Total:	Total:	Total:							
14:00	Flow:	Flow:	Flow:							
14:00	Total:	Total:	Total:							
15:00	Flow:	Flow:	Flow:							
15:00	Total:	Total:	Total:							
16:00	Flow:	Flow:	Flow:							
16:00	Total:	Total:	Total:							
17:00	Flow:	Flow:	Flow:							
17:00	Total:	Total:	Total:							
18:00	Flow:	Flow:	Flow:							
18:00	Total:	Total:	Total:							
19:00	Flow:	Flow:	Flow:							
19:00	Total:	Total:	Total:							
20:00	Flow:	Flow:	Flow:							
20:00	Total:	Total:	Total:							
21:00	Flow:	Flow:	Flow:							
21:00	Total:	Total:	Total:							
22:00	Flow:	Flow:	Flow:							
22:00	Total:	Total:	Total:							
23:00	Flow:	Flow:	Flow:							
23:00	Total:	Total:	Total:							
24:00	Flow:	Flow:	Flow:							
24:00	Total:	Total:	Total:							

PUMP
OPERATOR _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

Kyle Carr / ERICASH 10/23/15
Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Cathy Ward

Date:

10/1/15

Approved:

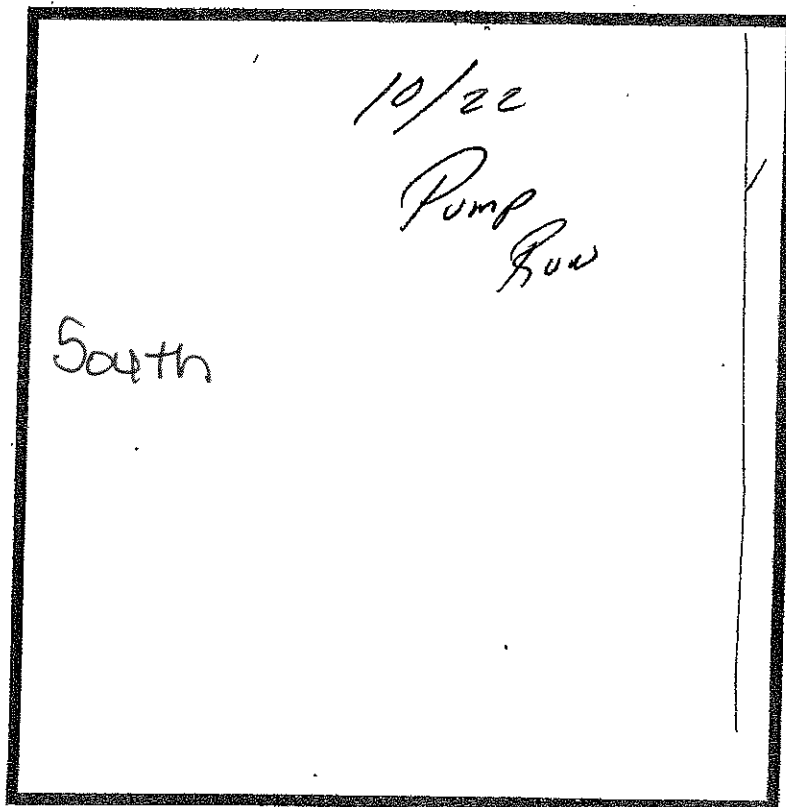
Paul Smith

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>10</u> Day <u>23</u> Year <u>2015</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00 2:37	Flow: 32792	Flow: 30458	598	598	0.90	✓
2:00 2:37	Total: 60202833	Total: 16012652			0.90	✓
3:00	Flow: 32841	Flow: 31617	598	598	0.90	✓
3:00	Total: 60477231	Total: 16628414				✓
4:00	Flow: 33063	Flow: 32106	598	598	0.90	✓
4:00	Total: 61817686	Total: 18526031				✓
5:00	Flow: 32697	Flow: 31318	598	598	0.90	✓
5:00	Total: 63413544	Total: 20419278				✓
6:00	Flow: 32639	Flow: 31441	588	588	.9	✓
6:00	Total: 64732739	Total: 22359729				
7:00	Flow: 33315	Flow: 31331	588	588	.9	✓
7:00	Total: 65527217	Total: 24211379				
8:00	Flow: 32329	Flow: 31513	588	588	.9	✓
8:00	Total: 67138622	Total: 26098457				
9:00	Flow: 32386	Flow: 29383	588	588	.9	✓
9:00	Total: 691046245	Total: 279126474				
10:00	Flow: 32439	Flow: 31885	588	588	.9	
10:00	Total: 709160536	Total: 295413689				
11:00	Flow: 33333	Flow: 32443	598	598	.9	✓
11:00	Total: 729448627	Total: 33383886				
12:00	Flow: 34653	Flow: 32533	598	598	.9	✓
12:00	Total: 74588050	Total: 34615530				

PUMP OPERATOR

Kyle Carr / ELSC
CASH

Date 10/23/15

Page 23 of 24

VERIFIED BY PUMP
COORDINATOR

[Signature]

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
		Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No.Pump	RPM So.Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24:00	Total:	Total:				

PUMP OPERATOR _____

Date: _____

VERIFIED BY PUMP
COORDINATOR _____

Date: _____

Pump Coordinator Roles and Responsibilities

10/23 - 10/24/15

Page 4 of 7

1145	South Station Pumped	2977,290
------	----------------------	----------

1200 Total Gallons pumped by South Station into CCS = 35,434,024

10-23-15-10-24-15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

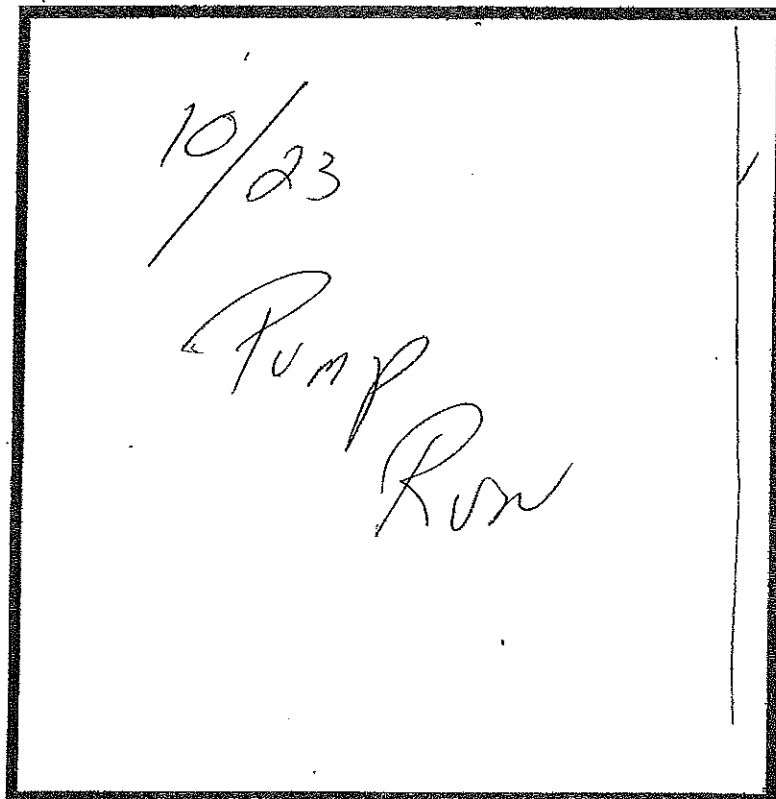
Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET

Month 10 Day 24 Year 15

Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 944 St.	South Canal Level South of 944 St.	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
0238	22842	ERROR	ERROR	576	576	576	0	.90	✓
2:00	Total:	Total:	Total:						
	43649593	ERROR	ERROR						
3:00	Flow:	Flow:	Flow:						
	21892	ERROR	ERROR	576	576	576	.10	.90	✓
3:00	Total:	Total:	Total:						
	45377102	ERROR	ERROR						
4:00	Flow:	Flow:	Flow:						
	21892	ERROR	ERROR	576	576	576	.10	.90	✓
4:00	Total:	Total:	Total:						
	45377102	ERROR	ERROR						
5:00	Flow:	Flow:	Flow:						
	21919	ERROR	ERROR	576	576	576	.25	.90	✓
5:00	Total:	Total:	Total:						
	46689882	ERROR	ERROR						
6:00	Flow:	Flow:	Flow:						
	21967	ERROR	ERROR	576	576	576	.4	.9	✓
6:00	Total:	Total:	Total:						
	48004417	ERROR	ERROR	60Hz	60Hz	60Hz			
7:00	Flow:	Flow:	Flow:						
	21769	ERROR	ERROR	576	576	576	.4	.9	✓
7:00	Total:	Total:	Total:						
	49325344	ERROR	ERROR						
8:00	Flow:	Flow:	Flow:						
	21712	ERROR	ERROR	576	576	576	.5	.9	✓
8:00	Total:	Total:	Total:						
	56589909	ERROR	ERROR						
9:00	Flow:	Flow:	Flow:						
	21961	ERROR	ERROR	576	576	576	.5	.9	✓
9:00	Total:	Total:	Total:						
	57894129	ERROR	ERROR						
10:00	Flow:	Flow:	Flow:						
	22096	ERROR	ERROR	576	576	576	.5	.9	✓
10:00	Total:	Total:	Total:						
	53183025	ERROR	ERROR						
11:00	Flow:	Flow:	Flow:						
	22158	ERROR	ERROR	576	576	576	.6	.9	✓
11:00	Total:	Total:	Total:						
	54512579	ERROR	ERROR						
11:53	Flow:	Flow:	Flow:						
	22956	ERROR	ERROR	576	576	576	.6	.9	✓
	Total:	Total:	Total:						
	55702497	ERROR	ERROR						

PUMP OPERATOR

Date 10-24-15

VERIFIED BY PUMP
COORDINATOR

Date

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>10</u> Day <u>23</u> Year <u>15</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:				.50	.90	✓
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP

OPERATOR

Abbie Cooper

VERIFIED BY PUMP

COORDINATOR

Date:

10-24-15

Kyle Carr/ERICCAH

10/24/15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Cathy Ward

Date:

10/1/15

Approved:

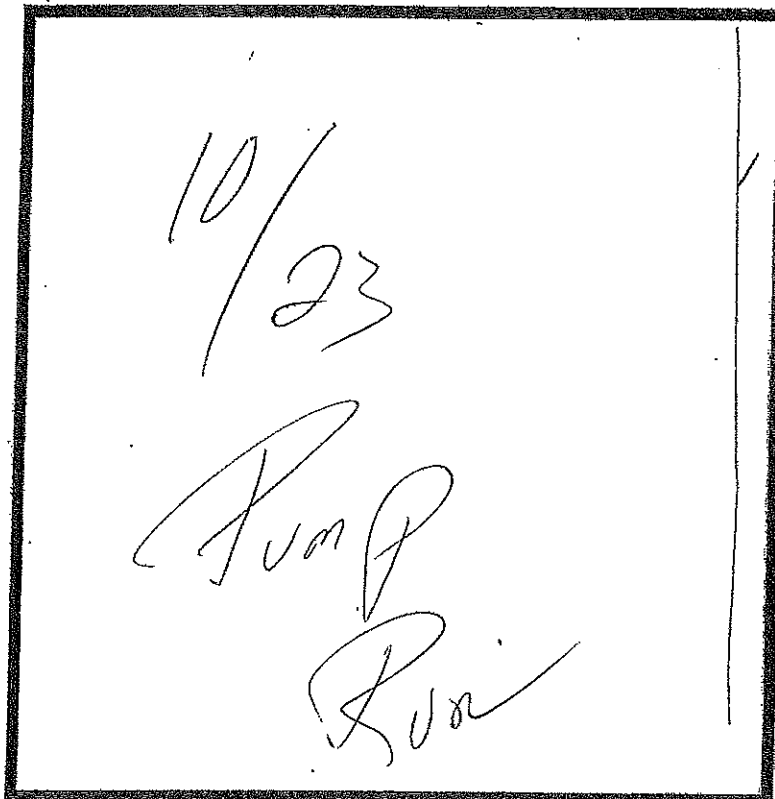
[Signature]

Date:

10/1/15

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>10</u> Day <u>24</u> Year <u>2015</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00	Flow:	Flow:				
2:00	Total:	Total:				
2:43	34102	30482	598	598	0.90	✓
2:43	74729645	31943999				
3:00	Flow:	Flow:				
3:00	Total:	Total:				
3:00	33951	31308	598	598	0.90	✓
3:00	77109143	34261757				
4:00	Flow:	Flow:				
4:00	Total:	Total:				
4:00	33951	31308	598	598	0.90	✓
4:00	77109143	34261757				
5:00	Flow:	Flow:				
5:00	Total:	Total:				
5:00	33638	31130	598	598	0.90	✓
5:00	79165544	36157054				
6:00	Flow:	Flow:				
6:00	Total:	Total:				
6:00	33574	31370	598	598	.9	✓
6:00	41167511	38006152				
7:00	Flow:	Flow:				
7:00	Total:	Total:				
7:00	33182	31011	598	598	.9	✓
7:00	420061511	398873456				
8:00	Flow:	Flow:				
8:00	Total:	Total:				
8:00	33460	31073	598	598	.9	✓
8:00	41468700	41766790				
9:00	Flow:	Flow:				
9:00	Total:	Total:				
9:00	34196	31141	598	598	.9	✓
9:00	46217641	43626240				
10:00	Flow:	Flow:				
10:00	Total:	Total:				
10:00	34562	32294	598	598	.9	✓
10:00	45246927	45207362				
11:00	Flow:	Flow:				
11:00	Total:	Total:				
11:00	34559	31779	598	598	.9	✓
11:00	49306341	47414988				
12:00	Flow:	Flow:				
12:00	Total:	Total:				
12:00	34207	31100010	598	598	.9	✓
12:00	41430668	46439725				

OK
KCPUMP OPERATOR Kyle Carr/EC22Date 10/24/15VERIFIED BY PUMP
COORDINATOR [Signature]

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24:00	Total:	Total:				

PUMP OPERATOR

Date: _____

VERIFIED BY PUMP
COORDINATOR

Date: _____

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 1

Pump Coordinator Roles and Responsibilities

10/24/15
Pump

Date / Time	EVENT LOG BOOK	Page _ of _
10/24/15 2:15	checked for wildlife and made sure all equipment in operating order	
10/24/15 2:37	STARTED NORTH Pump	
10/24/15 2:42	STARTED SOUTH Pump	
10/25/1300	NORTH Pump TOTAL gallons	1,481,844
10/25/1300	SOUTH Pump TOTAL gallons	1,162,548
10/25/1400	NORTH Pump TOTAL gallons	3,828,360
10/25/1400	SOUTH Pump TOTAL gallons	3,903,510
10/25/1500	NORTH Pump TOTAL gallons	3,838,740
10/25/1500	SOUTH Pump TOTAL gallons	3,920,790
10/25/1600	NORTH Pump TOTAL gallons	3,840,060
10/25/1600	SOUTH Pump TOTAL gallons	3,906,810
10/25/0700	North Pump Total gallons	3,841,050
10/25/0700	South Pump Total gallons	3,904,590
10/25/0800	North Pump Total gallons	3,843,540
10/25/0800	South Pump Total gallons	3,957,930
10/25/0900	North Pump Total gallons	3,851,190
10/25/0900	South Station Pumped	3,932,430
10/25/1000	North Station Pumped	3,868,230
10/25/1000	South Station Pumped	3,927,210
10/25/1100	North Station Pumped	3,868,500
10/25/1100	South Station Pumped	4,007,100
10/25/1155	North Station Pumped	3,545,850
10/25/1148	South Station Pumped	3,125,112
10/25	Total North Station Pumped	35,807,364 gals
	Total South Station Pumped	35,748,030 gals

10-24-15- 10-25-15-

Debbie Cooper & Brian Ingraham

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

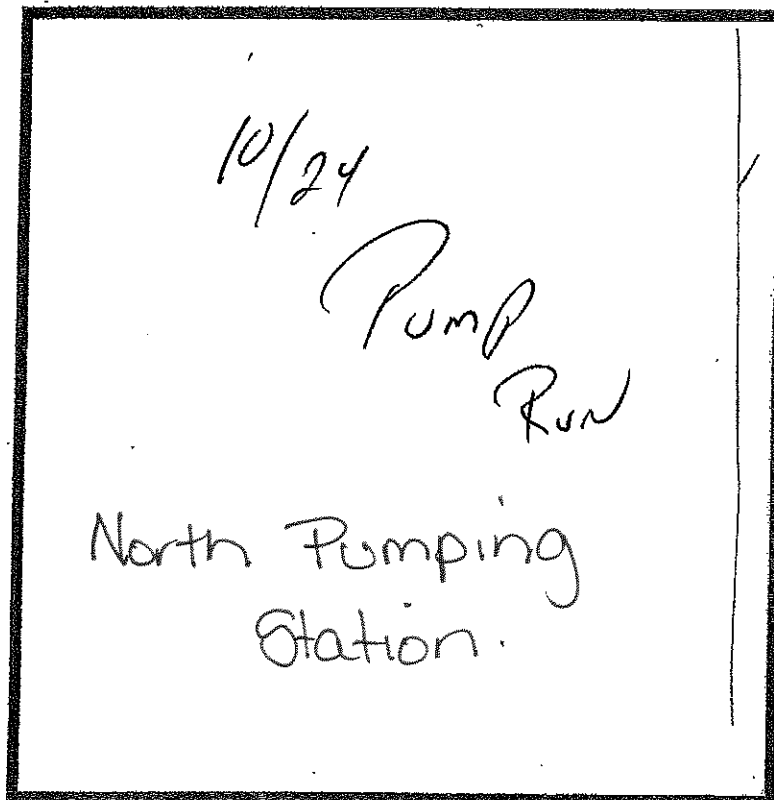
Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET									
Month 10 Day 25 Year 15									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow:	Flow:	Flow:						
0237	22843	ERROR	19692	576	576	576	.10	.90	✓
2:00	Total:	Total:	Total:						
	5571870	ERROR	18322302						
3:00	Flow:	Flow:	Flow:						
	21613	ERROR	19447	576	576	576	.20	.90	✓
3:00	Total:	Total:	Total:						
	56251928	ERROR	18752314						
4:00	Flow:	Flow:	Flow:						
	21599	ERROR	19413	576	576	576	-.30	.90	✓
4:00	Total:	Total:	Total:						
	57510491	ERROR	19888674						
5:00	Flow:	Flow:	Flow:						
	21959	ERROR	19471	576	576	576	0	.90	✓
5:00	Total:	Total:	Total:						
	58812569	ERROR	21047404						
6:00	Flow:	Flow:	Flow:						
	21643	ERROR	19603	576	576	576	.1	.9	✓
6:00	Total:	Total:	Total:						
	60144819	ERROR	2223922	6042	6042	6042			
7:00	Flow:	Flow:	Flow:						
	21992	ERROR	19656	576	576	576	.3	.9	✓
7:00	Total:	Total:	Total:						
	61427698	ERROR	23411379						
8:00	Flow:	Flow:	Flow:						
	21726	ERROR	19879	576	576	576	.3	.9	✓
8:00	Total:	Total:	Total:						
	62761558	ERROR	24605331						
9:00	Flow:	Flow:	Flow:						
	22247	ERROR	19861	576	576	576	.4	.9	✓
9:00	Total:	Total:	Total:						
	64075514	ERROR	25866497						
10:00	Flow:	Flow:	Flow:						
	22294	ERROR	19901	576	576	576	.4	.9	✓
10:00	Total:	Total:	Total:						
	65386985	ERROR	26957148						
11:00	Flow:	Flow:	Flow:						
	22256	ERROR	19701	576	576	576	.5	.9	✓
11:00	Total:	Total:	Total:						
	66717859	ERROR	28152401						
11:55	Flow:	Flow:	Flow:						
	22284	ERROR	19862	576	576	576	.5	.9	✓
11:58	Total:	Total:	Total:						
	67883644	ERROR	29198310						

PUMP OPERATOR: Rebecca Cooper

Date: 10-25-15

VERIFIED BY PUMP

COORDINATOR: A. Cooper

Date: 10/25/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET Month <u>10</u> Day <u>24</u> Year <u>15</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:				.40	.90	✓
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR Debbie Cooper
Date: 10-24-15

VERIFIED BY PUMP
COORDINATOR A. Cooper
Date: 10/24/15

ELICASH 10/25/15
Kyle Carr

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

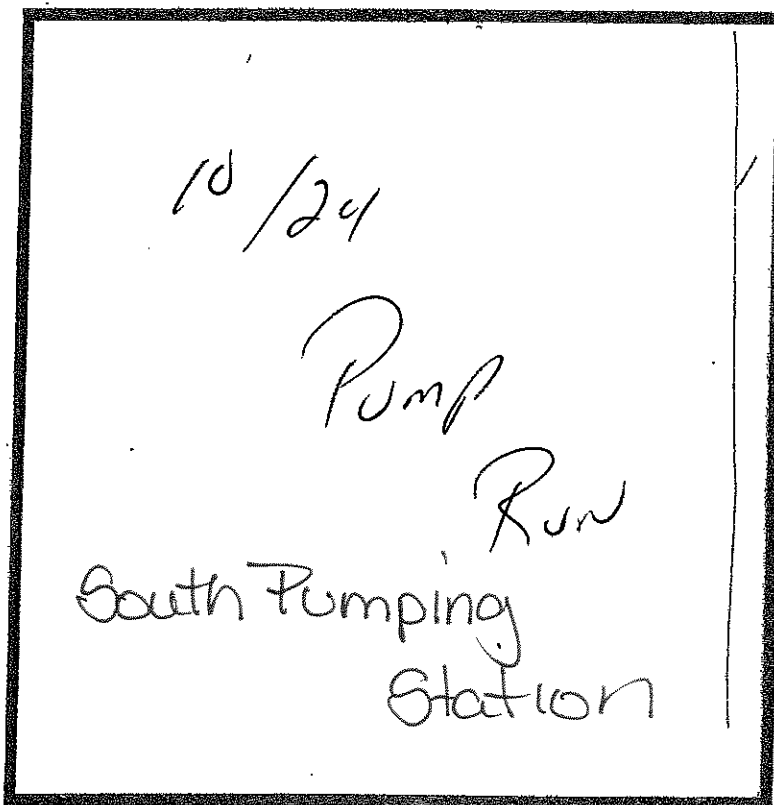
Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps



INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>10</u> Day <u>25</u> Year <u>2015</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM Sq. Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00 2:42	Flow: 34120	Flow: 30194	598	598	0.85	✓
2:00 2:42	Total: 91961406	Total: 48484888				
3:00 3:00	Flow: 34010	Flow: 30848	598	598	0.85	✓
3:00 3:00	Total: 92380412	Total: 49011990				
4:00	Flow: 34236 34381176	Flow: 31023	598	598	0.85	✓
4:00	Total: 94381176	Total: 50823561				
5:00	Flow: 84018	Flow: 31416	598	598	0.85	✓
5:00	Total: 96395693	Total: 52664540				
6:00	Flow: 33444	Flow: 31344	598	598	.85	✓
6:00	Total: 98340207	Total: 54551225				
7:00	Flow: 33567	Flow: 31793	598	598	.85	✓
7:00	Total: 99913431	Total: 56425319				
8:00	Flow: 34069	Flow: 31502	598	598	.85	✓
8:00	Total: 969246	Total: 58324124				
9:00	Flow: 0.000	Flow: 30410	598	598	.85	✓
9:00	Total: 1444076	Total: 60142561				
10:00	Flow: 34254	Flow: 32143	598	598	.85	✓
10:00	Total: 3647956	Total: 62044366				
11:00	Flow: 34541	Flow: 32632	598	598	.85	✓
11:00	Total: 5725413	Total: 65317561				
12:00	Flow: 34835	Flow: 3205	598	598	.85	✓
12:00	Total: 7264345	Total: 63080503			.85	

onit
(111) KCPUMP OPERATOR ELSCASH

Page 23 of 24

VERIFIED BY PUMP
COORDINATOR A. Cooper

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET						
		Month	Day	Year		
Time	North Pump (107944)	South Pump (107939)	RPM No. Pump	RPM So. Pump	South Canal Level	System Checks Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24:00	Total:	Total:				

PUMP OPERATOR _____

Date: _____

VERIFIED BY: PUMP
COORDINATOR _____

Date: _____

10/25 Pump Run

Page 1 of 1

Page 14 of 24

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

South
Station
10/25 Pump Run
Night - Nan Sweeney
Day - Eric Cash

10/25 Pump Run

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET Month <u>10</u> Day <u>24</u> Year <u>15</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No.Pump	RPM So.Pump	South Canal Level	System Checks-Sat
13:00	Flow:	Flow:				
13:00	Total:	Total:				
14:00	Flow:	Flow:				
14:00	Total:	Total:				
15:00	Flow:	Flow:				
15:00	Total:	Total:				
16:00	Flow:	Flow:				
16:00	Total:	Total:				
17:00	Flow:	Flow:				
17:00	Total:	Total:				
18:00	Flow:	Flow:				
18:00	Total:	Total:				
19:00	Flow:	Flow:				
19:00	Total:	Total:				
20:00	Flow:	Flow:				
20:00	Total:	Total:				
21:00	Flow:	Flow:				
21:00	Total:	Total:				
22:00	Flow:	Flow:				
22:00	Total:	Total:				
23:00	Flow:	Flow:				
23:00	Total:	Total:				
24:00	Flow:	Flow:				
24:00	Total:	Total:				

PUMP OPERATOR _____

Date _____

VERIFIED BY PUMP
COORDINATOR _____

Date _____

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 3

10/25 pump Run

SOUTH PUMP STATION HOURLY LOG SHEET						
Month <u>10</u> Day <u>24</u> Year <u>15</u>						
Time	North Pump (107944)	South Pump (107939)	RPM No Pump	RPM So Pump	South Canal Level	System Checks Sat
00:00	Flow:	Flow:				
00:00	Total:	Total:				
1:00	Flow:	Flow:				
1:00	Total:	Total:				
2:00 257	Flow:	Flow:				
2:00 257	Total:	Total:				
3:00	Flow: 33960	Flow: 31073				
3:00	Total: 7472407	Total: 64074985				
4:00	Flow: 34262	Flow: 31214				
4:00	Total: 9565561	Total: 66006275				
5:00	Flow: 34262	Flow: 31214				
5:00	Total: —	Total: —				
6:00	Flow: 33963	Flow: 31057	598	598		✓
6:00	Total: 13541779	Total: 68731458				
7:00	Flow: 33434	Flow: 31285	588	588		✓
7:00	Total: 155914412	Total: 711680677				
8:00	Flow: 33762	Flow: 31133	588	588		✓
8:00	Total: 17120062	Total: 73497247				
9:00	Flow: 33664	Flow: 30614	588	588		✓
9:00	Total: 19144632	Total: 73359455				
10:00	Flow: 33689	Flow: 31735	588	588		✓
10:00	Total: 21271653	Total: 77226147				
11:00	Flow: 33294	Flow: 31700	588	588		✓
11:00	Total: 23138739	Total: 79120488				
12:00	Flow: 33294	Flow: 31939	588	588		✓
12:00	Total: 24567338	Total: 80440160				

PUMP OPERATOR ERIC CASA

Date

10/26/15VERIFIED BY PUMP
COORDINATOR Bull

10-25-15 - 10-26-15

Rev 8, 10/01/2015

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 08

Author:

Date:

Approved:

Date:

Revision 7: Added RPM Columns for North and South Pumping Stations in Procedure.

Revision 8: Added requirement for validating CCS level margin prior to starting L31 pumps

10/25 Pump Run
Deb Cooper
Bryan Ingram
North Pumping
Station

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

Bryan Ingram

NORTH PUMPING STATION HOURLY LOG SHEET				Month 10 Day 26 Year 15					
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St.	South Canal Level South of 344 St.	System Checks Sat
00:00	Flow:	Flow:	Flow:						
00:00	Total:	Total:	Total:						
1:00	Flow:	Flow:	Flow:						
1:00	Total:	Total:	Total:						
2:00	Flow: 0252 24248	Flow: 20970	Flow: 19492	576	576	576	.1	.90	✓
2:00	Total: 67963374	Total: 37171370	Total: 29240968						
3:00	Flow:	Flow:	Flow:						
3:00	Total:	Total:	Total:						
4:00	Flow: 21568	Flow: ERROR	Flow: 19423	576	576	576	-.35	.90	✓
4:00	Total: 69389601	Total: ERROR	Total: 30513823						
5:00	Flow: 21525	Flow: ERROR	Flow: 20184	576	576	576	-.40	.90	✓
5:00	Total: 70670906	Total: ERROR	Total: 31716971						
6:00	Flow: 21955	Flow: ERROR	Flow: 20499	576	576	576	.0	.9	✓
6:00	Total: 71989418	Total: ERROR	Total: 32920742						
7:00	Flow: 21962	Flow: ERROR	Flow: 20600	576	576	576	.1	.9	✓
7:00	Total: 73294644	Total: ERROR	Total: 34141940						
8:00	Flow: 22060	Flow: ERROR	Flow: 20951	576	576	576	.2	.9	✓
8:00	Total: 74646653	Total: ERROR	Total: 36418322						
9:00	Flow: 22059	Flow: ERROR	Flow: 21168	576	576	576	.3	.9	✓
9:00	Total: 75930793	Total: ERROR	Total: 36631786						
10:00	Flow: 22116	Flow: ERROR	Flow: 21199	576	576	576	.4	.9	✓
10:00	Total: 77669596	Total: ERROR	Total: 37411368						
11:00	Flow: 22159	Flow: ERROR	Flow: 21470	576	576	576	.4	.9	✓
11:00	Total: 78522533	Total: ERROR	Total: 39124416						
12:00	Flow: 22425	Flow: ERROR	Flow: 21193	576	576	576	.	.9	✓
12:00	Total: 79627446	Total: ERROR	Total: 40188672						

PUMP OPERATOR

Date

VERIFIED BY PUMP
COORDINATOR

Date

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET									
Month <u>10</u> Day <u>25</u> Year <u>15</u>									
Time	East Pump (107942)#3	Center Pump (107941)#2	West Pump (107940)#1	RPM East Pump	RPM Center Pump	RPM West Pump	North Canal Level North of 344 St	South Canal Level South of 344 St	System Checks Sat
13:00	Flow:	Flow:	Flow:						
13:00	Total:	Total:	Total:						
14:00	Flow:	Flow:	Flow:						
14:00	Total:	Total:	Total:						
15:00	Flow:	Flow:	Flow:						
15:00	Total:	Total:	Total:						
16:00	Flow:	Flow:	Flow:						
16:00	Total:	Total:	Total:						
17:00	Flow:	Flow:	Flow:						
17:00	Total:	Total:	Total:						
18:00	Flow:	Flow:	Flow:				.20	.90	✓
18:00	Total:	Total:	Total:						
19:00	Flow:	Flow:	Flow:						
19:00	Total:	Total:	Total:						
20:00	Flow:	Flow:	Flow:						
20:00	Total:	Total:	Total:						
21:00	Flow:	Flow:	Flow:						
21:00	Total:	Total:	Total:						
22:00	Flow:	Flow:	Flow:						
22:00	Total:	Total:	Total:						
23:00	Flow:	Flow:	Flow:						
23:00	Total:	Total:	Total:						
24:00	Flow:	Flow:	Flow:						
24:00	Total:	Total:	Total:						

PUMP
OPERATOR: Carroll Cooper
Date: 10-25-15

VERIFIED BY PUMP
COORDINATOR
Date: _____